



Glenn Research Center



## Dynamics of Miscible Interfaces

- Study the process of displacement ("fingering") of a viscous fluid by a miscible, less viscous fluid in a cylindrical tube
- Measure velocity of the finger tip and velocity field around the finger
- Measure concentration field around the finger
- Candidate test liquids: Glycerine and glycerine-water mixture
- Displacement speeds 0.03 to 25 microns/s

